

EXPRESS MAIL NO. EL615486174US

PTO/SB/21 (08-00)

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Approved for use through 10/31/2002. OMB 0651-0031

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TRANSMITTAL FORM

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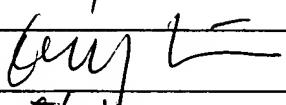
Application Number	10/006,869
Filing Date	December 3, 2001
First Named Inventor	Orest W. Blaschuk
Group Art Unit	1631
Examiner Name	
Attorney Docket No.	100086.407C7

ENCLOSURES (check all that apply)

<input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input checked="" type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement; Forms PTO-1449 (5 sheets) <input type="checkbox"/> Cited References <input type="checkbox"/> Certified Copy of Priority Document(s) <input checked="" type="checkbox"/> Response to Missing Parts under 37 C.F.R. 1.52 or 1.53 <input type="checkbox"/> Response to Missing Parts/Incomplete Application	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input checked="" type="checkbox"/> Request for Corrected Filing Receipt <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation, Change of Correspondence Address <input type="checkbox"/> Declaration <input type="checkbox"/> Statement under 37 CFR 3.73(b) <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Small Entity Statement <input type="checkbox"/> Request for Refund	<input type="checkbox"/> CD(s), Number of CD(s) _____ <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Return Postcard <input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below): <u>Preliminary Amendment</u> <u>Copy of Supplemental</u> <u>Assignment from parent</u> <u>Copy of page 1 application as filed</u> <u>Copy of Filing Receipt w/Corrections</u> <u>Copy of Formalities Letter</u>
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Remarks

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Individual Name	Qing Lin, Ph.D.	 00500 PATENT TRADEMARK OFFICE
Signature		
Date	5/2/02	



EXPRESS MAIL NO. EL615486174US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT
H5188
8/2/02

Applicants : Orest W. Blaschuk et al.
Application No. : 10/006,869
Filed : December 3, 2001
For : COMPOUNDS AND METHODS FOR MODULATING
NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

Art Unit No. : 1631
Docket No. : 100086.407C7
Date : May 2, 2002

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

RESPONSE TO NOTICE TO FILE MISSING PARTS OF APPLICATION

Commissioner for Patents:

In response to the Notice to File Missing Parts dated January 7, 2002, please find enclosed the following documents:

Check

Copy of Formalities Letter

Respectfully submitted,
Orest W. Blaschuk et al.
Seed Intellectual Property Law Group PLLC

Qing Lin, Ph.D.
(See Limited Recognition in File)

EXPRESS MAIL NO. EL615486174US



UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS
 UNITED STATES PATENT AND TRADEMARK OFFICE
 WASHINGTON, D.C. 20231
 www.uspto.gov

APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/006,869	12/03/2001	Orest W. Blaschuk	100086.407C7

00500
 SEED INTELLECTUAL PROPERTY GROUP PLLC
 701 FIFTH AVE
 SUITE 6300
 SEATTLE, WA 98104-7092



CONFIRMATION NO. 1299

FORMALITIES LETTER



OC000000007273926

Date Mailed: 01/07/2002

NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

FILED UNDER 37 CFR 1.53(b)

Filing Date Granted

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

- The statutory basic filing fee is missing.
Applicant must submit \$ 370 to complete the basic filing fee for a small entity.
- Total additional claim fee(s) for this application is \$4676.
 - \$3780 for 420 total claims over 20.
 - \$756 for 18 independent claims over 3 .
 - \$140 for multiple dependent claim surcharge.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$65 for a small entity in compliance with 37 CFR 1.27, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 5111.**

*A copy of this notice **MUST** be returned with the reply.*

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Customer Service Center

Initial Patent Examination Division (703) 308-1202

PART 2 - COPY TO BE RETURNED WITH RESPONSE

SUPPLEMENTAL ASSIGNMENT

WHEREAS, we, Orest W. Blaschuk, James Matthew Symonds, and Barbara J. Gour (hereinafter referred to as ASSIGNORS), having post office addresses of 4998 De Maisonneuve West, Suite 1520, Westmount, Quebec, Canada H3Z 1N2; 188 Waverley Street, Apt. 303, Ottawa, Ontario, Canada K2P 0V6; and 2890 Donnelly Drive, RR#4 Kemptville, Ontario, Canada K0G 1J0, respectively, are the joint inventors of an invention entitled "COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS," which is described and claimed in the specification and claims of U.S. Application No. 09/187,859, which we filed in the United States Patent and Trademark Office on November 6, 1998, and for which a patent is sought; this application is a continuation-in-part of U.S. Patent Application No. 09/073,040, filed May 5, 1998, currently pending.

WHEREAS, Adherex Technologies Inc. (hereinafter referred to as ASSIGNEE), having a place of business at 600 Peter Morand Crescent, Suite 340, Ottawa, Ontario, Canada K1G 5Z3, is desirous of acquiring the entire right, title and interest in and to the invention and in and to any letters patent that may be granted therefor in the United States and in any and all foreign countries;

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNORS hereby sell, assign and transfer unto said ASSIGNEE the entire right, title and interest in and to said invention, said application and any and all letters patent which may be granted for said invention in the United States of America and its territorial possessions and in any and all foreign countries, and in any and all divisions, reissues and continuations thereof, including the right to file foreign applications directly in the name of ASSIGNEE and to claim priority rights deriving from said United States application to which said foreign applications are entitled by virtue of international convention, treaty or otherwise, said invention, application and all letters patent on said invention to be held and enjoyed by ASSIGNEE and its successors and assigns as fully and entirely as the same would have been held and enjoyed by ASSIGNORS had this assignment, transfer and sale not been made. ASSIGNORS hereby authorize and request the Commissioner of Patents and Trademarks to issue all letters patent on said invention to ASSIGNEE. ASSIGNORS agree to execute all instruments and documents required for the making and prosecution of applications for United States and foreign letters patent on said invention, for litigation regarding letters patent, or for the purpose of protecting title to said invention or letters patent therefor.

June 28th 1999

Date

Orest W. Blaschuk

Orest W. Blaschuk

I certify that I know or have satisfactory evidence that Orest W. Blaschuk signed this instrument of his own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

June 28th, 1999

Date

De. Mai

Witness

June 28th 1999

Date

JMS

James Matthew Symonds

I certify that I know or have satisfactory evidence that James Matthew Symonds signed this instrument of his own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

June 28th, 1999

Date

De. Mai

Witness

June 28th, 1999

Date

Barbara J. Gour

Barbara J. Gour

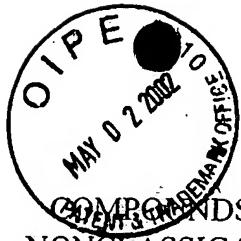
I certify that I know or have satisfactory evidence that Barbara J. Gour signed this instrument of her own free will, as a voluntary act for the uses and purposes mentioned in the instrument.

June 28th, 1999

Date

De. Mai

Witness



COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

CROSS-REFERENCE TO RELATED APPLICATION

5 This application is a continuation-in-part of U.S. Patent Application No. 09/073,040, filed May 5, 1998.

TECHNICAL FIELD

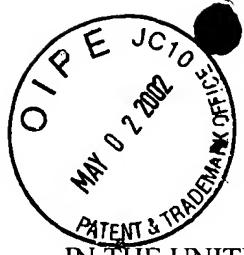
10 The present invention relates generally to methods for modulating nonclassical cadherin-mediated functions, and more particularly to the use of modulating agents derived from nonclassical cadherin cell adhesion recognition sequences for inhibiting or enhancing functions mediated by nonclassical cadherins.

BACKGROUND OF THE INVENTION

15 Cadherins are a rapidly expanding superfamily of calcium-dependent cell adhesion molecules (CAMs) (*for review, see Munro et al., In: Cell Adhesion and Invasion in Cancer Metastasis*, P. Brodt, ed., pp. 17-34, RG Landes Co., Austin TX, 1996).

20 All cadherins appear to be membrane glycoproteins that generally promote cell adhesion through homophilic interactions (a cadherin on the surface of one cell binds to an identical cadherin on the surface of another cell), although cadherins also appear to be capable of forming heterotypic complexes with one another under certain circumstances and with lower affinity.

25 There are many different types of cadherins. The most extensively studied group of cadherins is known as the classical, or type I, cadherins. Classical cadherins have been shown to regulate epithelial, endothelial, neural and cancer cell adhesion, with different cadherins expressed on different cell types. All classical cadherins have a similar structure. As illustrated in Figure 1A, classical cadherins are composed of five extracellular domains (EC1-EC5), a single hydrophobic domain (TM) that transverses the plasma membrane (PM), and two cytoplasmic domains (CP1 and CP2). The calcium binding motifs DXNDN (SEQ ID NO:1), DXD and LDRE (SEQ ID NO:2) are interspersed throughout the extracellular domains, and each 110 amino acid 30 region that contains such motifs is considered a cadherin repeat. The first extracellular



EXPRESS MAIL NO. EL615486174US

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Orest W. Blaschuk et al.
Application No. : 10/006,869
Filed : December 3, 2001
For : COMPOUNDS AND METHODS FOR MODULATING
NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS
Art Unit No. : 1631
Docket No. : 100086.407C7
Date : May 2, 2002

Box Missing Parts
Commissioner for Patents
Washington, DC 20231

REQUEST FOR CORRECTED FILING RECEIPT

Commissioner for Patents:

Attached is a copy of the official Filing Receipt received from the PTO in the above-identified application, for which issuance of a corrected Filing Receipt is respectfully requested.

There is an error with respect to the following data, which is incorrectly entered.
There is an error in the omission of the second inventor, which should read:

James Matthew Symonds, Ottawa, Canada

In addition, the title of the application is omitted. It should be listed as follows:

**COMPOUNDS AND METHODS FOR MODULATING NONCLASSICAL
CADHERIN-MEDIATED FUNCTIONS**

The corrections to be made have been marked in red on the enclosed copy of the Filing Receipt. Also enclosed are copies of the Assignment filed in the parent

application, U.S. Application No. 09/187,859, showing the correct names of applicants; along with a copy of page 1 of the application as filed showing the correct title.

Respectfully submitted,

Orest W. Blaschuk et al.

Seed Intellectual Property Law Group PLLC



Qing Lin, Ph.D.

(See Limited Recognition in File)

701 Fifth Avenue, Suite 6300
Seattle, Washington 98104-7092
Phone: (206) 622-4900 / Fax: (206) 682-6031

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55-03-02

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Page 1 of 2



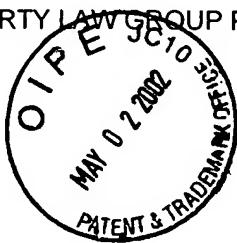
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NTC

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/006,869	12/03/2001	1631	0.00	100086.407C7	23	117	22

00500
 SEED INTELLECTUAL PROPERTY LAW GROUP PLLC
 701 FIFTH AVE
 SUITE 6300
 SEATTLE, WA 98104-7092



CONFIRMATION NO. 1299

FILING RECEIPT



OC000000007275420

Date Mailed: 01/07/2002

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Orest W. Blaschuk, Westmount, CANADA;
 Barbara J. Gour, Kemptville, CANADA;

James Matthew Symonds,
 Ottawa, Canada

Assignment For Published Patent Application

Adherex Technologies, Inc., Ottawa, ON, CANADA;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A CON OF 09/187,859 11/06/1998
 WHICH IS A CIP OF 09/073,040 05/05/1998

Foreign Applications

If required, Foreign Filing License Granted 01/07/2002

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

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JAN 14 2002

Title

SEED INTELLECTUAL PROPERTY
 LAW GROUP PLLC

COMPOUNDS AND METHODS FOR MODULATING
 NONCLASSICAL CADHERIN-MEDIATED FUNCTIONS

Preliminary Class

424

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

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NOT GRANTED

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